What is claimed is:

- 1. A method for controlling an optical power level, comprising the steps of:
- a) regularly increasing a control value of a driving signal generator for driving a pickup unit adapted to output an optical power;
 - b) checking a driving signal of the driving signal generator according to the increasing control value; and
 - c) setting a control value at which the driving signal begins to be generated as an offset value for setting up an optical power.

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2. The method as set forth in claim 1, wherein the driving signal of the driving signal generator is applied to a laser diode of the pickup unit, and a magnitude of the optical power is determined by a level of the driving signal.

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- 3. The method as set forth in claim 1, wherein the offset value is stored in a nonvolatile memory.
- 4. The method as set forth in claim 1, wherein the offset value is determined when an optical disc apparatus to which the method as set forth in claim 1 will be applied is initially driven.
 - 5. The method as set forth in claim 1, wherein the step (c) includes the steps of:
- c1) determining a control value at which the driving signal of the driving signal generator reaches a predetermined signal level; and

- c2) subtracting a predetermined value from the determined control value, and setting the subtracted result value as the offset value.
- 6. The method as set forth in claim 5, wherein the predetermined signal level is within a threshold area of the driving signal of the driving signal generator.
- 7. The method as set forth in claim 1, further comprising the 10 step of:
 - d) calculating a control value for generating a driving signal of the pickup unit on the basis of the offset value.
- 8. The method as set forth in claim 7, wherein the step (d) includes the steps of:
 - d1) measuring a driving signal level of the driving signal generator in response to a predetermined control value; and
 - d2) calculating a control value for generating a specific driving signal level based on the predetermined control value, the measured driving signal level in response to the predetermined control value, and the offset value.

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9. The method as set forth in claim 8, wherein the control value for generating the specific driving signal level in the step (d2) is calculated by the following equation:

$$DAC_{DSL} = DAC_{offset} + \frac{DSL}{DSL_1} \times (DAC_1 - DAC_{offset})$$

where DSL is a driving signal level of the driving signal generator applied to the laser diode, DAC_{DSL} is a control value for generating a value of DSL, DAC_{offset} is an offset value, a DAC_1 is a predetermined control value, and a DSL_1 is a driving signal level in response to a value of DAC_1 .

10. The method as set forth in claim 7, wherein a control value for generating a predetermined driving signal level is previously stored in a nonvolatile memory in the form of a difference between the control value and an offset value for setting up an optical power.

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- 11. The method as set forth in claim 10, wherein the step (d) comprises the step of:
- d3) calculating a control value for generating a specific driving signal level based on the offset value determined at step (c) and the difference stored in the nonvolatile memory.
- 12. The method as set forth in claim 10, wherein the predetermined driving signal level is a pickup driving signal level for generating a specific optical power value used for either one of a data recording mode, a data playback mode, and a disc discrimination mode.